



THE COMMISSIONER IS AUTHORIZED
TO CHARGE ANY DEFICIENCY IN THE
FEES FOR THIS PAPER TO DEPOSIT
ACCOUNT NO. 23-0975

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : **Confirmation No. 6142**
Mitsuaki OSHIMA et al. : Docket No. 2000_1388
Serial No. 09/677,421 : Group Art Unit 2634
Filed October 5, 2000 : Examiner A. Le
COMMUNICATION SYSTEM : **Mail Stop: AF**

ADDITIONAL CLAIMS FEE TRANSMITTAL LETTER

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**RESPONSE UNDER 37. CFR 1.116
EXPEDITED PROCEDURE
EXAMINING GROUP 2634**

Sir:

Transmitted herewith is an Amendment in the above-identified application. Additional fees required as a result of this Amendment are calculated as follows:

	SMALL ENTITY		LARGE ENTITY
Total Claims exceeding 20 (not already paid for): x	(\$ 25 = \$)	or	(\$50 = \$)
Indep. Claims exceeding 3 (not already paid for): 5 x	(\$100 = \$)	or	(\$200 = \$1000.00)
<input type="checkbox"/> Multiple Dep. Claim(s) (if there previously were none): +	(\$180 = \$)	or	(\$360 = \$)
Total Additional Fee =	<u>\$</u>	or	<u>\$1000.00</u>

☐ Small entity status of this application is established by the verified statement under 37 C.F.R. 1.9 and 1.27 which
☐ is enclosed or
☐ has been previously submitted.

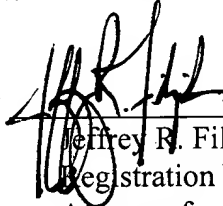
☒ A check in the amount of \$1000.00 is enclosed.

- ☐ Please charge Deposit Account No. 23-0975 the amount of \$ to cover additional fee. The Commissioner is authorized to charge any deficiency associated with this communication or to credit any overpayment to the Deposit Account. The original and two copies of this document are enclosed.

Respectfully submitted,

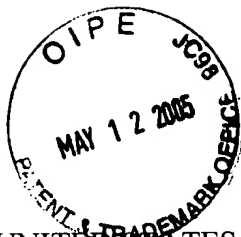
Mitsuaki OSHIMA et al.

By



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May 12, 2005



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AMENDMENT AFTER FINAL

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

RESPONSE UNDER 37. CFR 1.116
EXPEDITED PROCEDURE
EXAMINING GROUP 2634

Sir:

In response to the Final Office Action of January 12, 2005, the period for response to which having been extended by one month to May 12, 2005, please amend the above-identified U.S. patent application as follows:

IN THE CLAIMS:

Please amend claims 20 and 23 as follows. Also, please add new claims 24-35 as follows.

20. (Amended) A signal transmission system comprising:

a signal transmission apparatus comprising:

a modulator operable to assign each of a first data stream and a second data stream to a respective constellation in a vector space diagram to produce modulated signals wherein the number of signal points of the constellation for the first data stream is different from the number of signal points of the constellation for the second data stream; and

a transmitter operable to transmit the modulated signals; and

a signal receiving apparatus comprising:

a receiver operable to receive the modulated signals; and

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